§ 171.11

TABLE OF CONVERSION FACTORS FOR SI UNITS—Continued

Measurement	SI to U.S. standard	U.S. standard to SI
Density	1 kg/m³=0.06242797 lb/ft³ 1 Newton = 0.2248 Pound-force	1 lb/ft ³ =16.01846 kg/m ³ 1 Pound-force=4.483 N

Abbreviation for units of measure are as follows:

Unit of measure and abbreviation:

[Amdt. 171–111, 56 FR 66159, Dec. 20, 1991, as amended by Amdt. 171–136, 60 FR 49108, Sept. 21, 1995; Amdt. 171-135, 60 FR 50302, Sept. 28, 1995; 66 FR 33335, June 21, 2001; 66 FR 45378, Aug. 28, 20011

§171.11 Use of ICAO Technical Instructions.

Notwithstanding the requirements of parts 172 and 173 of this subchapter, a hazardous material may be transported by aircraft, and by motor vehicle either before or after being transported by aircraft, in accordance with the ICAO Technical Instructions (incorporated by reference, see §171.7) if the hazardous material:

- (a) Is packaged, marked, labeled, classified, described and certified on a shipping paper and otherwise in a condition for shipment as required by the ICAO Technical Instructions;
- (b) Is within the quantity limits prescribed for transportation by either passenger-carrying or cargo aircraft, as appropriate, as specified in the ICAO Technical Instructions;
- (c) Is not a forbidden material or package according to §173.21 of this subchapter or column 3 of the §172.101 table: and
- (d) Fulfills the following additional requirements as applicable:
- (1) For a material that meets the definition of a hazardous substance as defined in this subchapter, the shipping paper and package markings must conform to the provisions in §§172.203(c) and 172.324, respectively, of this sub-
- (2) When a hazardous material, which is subject to the requirements of the ICAO Technical Instructions, is also a hazardous waste as defined in this sub-
- (i) The word "Waste" must precede the proper shipping name on shipping papers and package markings; and
- (ii) It must comply with §172.205 with respect to the hazardous waste manifests.

- (3) When a hazardous material is not subject to the requirements of the ICAO Technical Instructions, it must be transported as required by this subchapter.
- (4) When a hazardous material that is regulated by this subchapter for transportation by highway is transported by motor vehicle on a public highway under the provisions of this section, the following requirements apply:
- (i) The motor vehicle must be placarded in accordance with subpart F of part 172 of this subchapter; and
- (ii) The shipping paper may include an indication that the shipment is being made under the provisions of this section or the letters "ICAO."
- (5) Except for a Division 2.2 air bag, bag module. or seat-belt pretensioner, the shipping paper description must conform to the requirements of §173.166(c) of this subchapter.
 - (6) For radioactive materials:
- (i) Shipping papers for highway route controlled quantity radioactive materials shipments must meet the requirements of §172.203(d)(4) of this subchapter.
- (ii) Competent authority certification and any necessary revalidation for Type B, Type B(U), Type B(M), and fissile materials packages must be obtained from the appropriate authorities as specifed in §§ 173.471, 173.472 and 173.473 of this subchapter, and all requirements of the certificates and revalidations must be met.
- (iii) Except for limited quantities of Class 7 (radioactive) material, the provisions of §§ 172.204(c)(4), 173.448(e), (f) and (g)(3) of this subchapter apply.
- (iv) Limited quantities of radioactive materials must meet the provisions of

⁽GI): millimeter, mm; centimeter, cm; meter, m; gram, g; kilogram, kg; kiloPascal, kPa; liter, L; milliliter, mL; cubic meter, m³; erabecquerel, TBq; Gigabecquerel, GBq; millisievert, mSv; Newton, N; (U.S.): Inch, in; foot, ft; ounce, oz; pound, lb; psig, psi; gallon, gal; cubic feet, ft ³; Curie, Ci; millicurie, mCi; millirem, mrem.

§173.421, §173.424 or §173.426 as appropriate of this subchapter.

- (v) Type A package contents shall be limited in accordance with §173.431 of this subchapter.
- (vi) The definition for "radioactive material" in §173.403 of this subchapter applies to radioactive materials transported under the provisions of this section
- (7) If a United States variation is indicated in the ICAO Technical Instructions for any provision governing the transport of the hazardous material, the hazardous material is transported in conformance with that variation.
- (8) Abbreviations may not be used in shipping paper entries or package markings unless they are specifically authorized by this subchapter. ICAO class or division numbers are not considered to be abbreviations.
- (9) When a hazardous material, which is subject to the requirements of the ICAO Technical Instructions, is a material poisonous by inhalation (see §171.8 of this subchapter)—
- (i) The shipping description must include the words "Toxic Inhalation Hazard" or "Poison-Inhalation Hazard" or "Inhalation Hazard", as required in §172.203(m) of this subchapter;
- (ii) The material must be packaged in accordance with the requirements of this subchapter; and
- (iii) The package must be marked in accordance with \$172.313 of this subchapter and labeled with "POISON INHALATION HAZARD" or "POISON GAS", as appropriate, in accordance with subpart E of part 172 of this subchapter.
- (10) Shipments of hazardous materials under this section must conform to the requirements for emergency response information as prescribed in subpart G of part 172 of this subchapter.
- (11) Packages of Class 1 (explosive) materials must be marked in accordance with §172.320 of this subchapter.
- (12) If an ammonium nitrate fertilizer or ammonium nitrate mixed fertilizer, must not meet the definition and criteria of a Class 1 (explosive) material.
- (13) Transportation of marine pollutants, as defined in §171.8 of this subchapter, in bulk packagings must con-

form to the requirements of §§ 172.203(1) and 172.322 of this subchapter.

- (14) Except as provided for limited quantities of compressed gases in containers of not more than 4 fluid ounces capacity under §173.306(a)(1) of this subchapter, aerosols must meet the definition for "Aerosol" in §171.8. In addition, an aerosol must be in a metal packaging if the packaging exceeds 7.22 cubic inches.
- (15) A chemical oxygen generator is forbidden for transportation aboard a passenger-carrying aircraft and must be approved, classed, described and packaged in accordance with the requirements of this subchapter for transportation on cargo-only aircraft. A chemical oxygen generator (spent) is forbidden for transportation on aircraft.
- (16) A cylinder containing Oxygen, compressed, may not be transported on a passenger-carrying aircraft or in an inaccessible cargo location aboard a cargo-only aircraft unless it is packaged as required by Part 173 and Part 178 of this subchapter and is placed in an overpack or outer packaging that satisfies the requirements of Special Provision A52 in §172.102.
- (17) An organic peroxide that is not identified by technical name in the Organic Peroxide Table in \$173.225(b) of this subchapter must be approved by the Associate Administrator in accordance with the requirements of \$173.128(d) of this subchapter.

[Amdt. 171-69, 47 FR 54821, Dec. 6, 1982]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §171.11, see the List of CFR Sections Affected which appears in the Finding Aids section of the printed volume and on GPO Access.

§171.12 Import and export shipments.

(a) Importer's responsibility. Except in the case of a shipment from Canada conforming to §171.12a of this subchapter, each person importing a hazardous material into the United States shall provide the shipper and the forwarding agent at the place of entry into the United States timely and complete information as to the requirements of this subchapter that will apply to the shipment of the material within the United States. The shipper, directly or through the forwarding